

# Resources

Read or watch:

- Arguments to main
- argc and argv
- What does argc and argv mean?
- how to compile with unused variables

# Learning Objectives

At the end of this project, you are expected to be able to explain to anyone, without the help of Google:

## General

- How to use arguments passed to your program
- What are two prototypes of main that you know of, and in which case do you use one or the other
- How to use \_\_attribute\_\_((unused)) or (void) to compile functions with unused variables or parameters

## Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

# Requirements

## General

- Allowed editors: vi, vim, emacs
- All your files will be compiled on Ubuntu 20.04 LTS using gcc, using the options -Wall -Werror -Wextra -pedantic -std=gnu89
- All your files should end with a new line
- A README.md file, at the root of the folder of the project is mandatory
- Your code should use the Betty style. It will be checked using betty-style.pl and betty-doc.pl
- You are not allowed to use global variables
- No more than 5 functions per file
- The prototypes of all your functions and the prototype of the function \_putchar should be included in your header file called main.h
- Don't forget to push your header file
- You are allowed to use the standard library

### Quiz questions

#### Question #0

What is argc ?

- ☐ The length of the first command line argument
- ☐ A flag set to 1 when command line arguments are present
- ☒ The number of command line arguments
- ☒ The size of the argv array

#### Question #1

In the following command, what is argv[2] ?

```
$ ./argv My School is fun
```

- ☒ School
- ☐ NULL
- ☐ My School is fun
- ☐ is
- ☐ fun
- ☐ is fun
- ☐ ./argv
- ☐ My School
- ☐ My

#### Question #2

What is argv[argc] ?

- ☐ The last command line argument
- ☐ The program name
- ☐ It does not always exist
- ☒ NULL
- ☐ The first command line argument

#### Question #3

What is argv ?

- ☒ An array containing the program command line arguments
- ☐ An array containing the program compilation flags
- ☒ An array of size argc

#### Question #4

In the following command, what is argv[2] ?

```
$ ./argv "My School" "is fun"
```

- ☐ School
- ☐ NULL
- ☐ My School is fun
- ☐ is
- ☐ fun
- ☒ is fun
- ☐ ./argv
- ☐ My School
- ☐ My

#### Question #5

In the following command, what is argv[2] ?

```
$ ./argv "My School is fun"
```

- ☐ School
- ☒ NULL
- ☐ My School is fun
- ☐ is
- ☐ fun
- ☐ is fun
- ☐ ./argv
- ☐ My School
- ☐ My

#### Question #6

What is argv[0] ?

- ☒ The program name
- ☐ It does not always exist
- ☐ NULL
- ☐ The first command line argument

Submit answers

Please make sure to validate all quiz questions before moving on to project tasks